

## ABSTRACT OF THE DISCLOSURE

A system and method for transporting a call having call signaling and voiceband user communications through an asynchronous transfer mode system identifies when compression, encryption, or another processing option has been applied to the voiceband user communications. A first signaling processor processes the call signaling to identify a selected first connection and a processing option, such as a compression method, to be applied to the voiceband user communications. The first signaling processor transports a control message to a first interworking unit identifying the selected connection and the selected compression method. The first interworking unit compresses the voiceband user communications with the selected compression method, sets a convergence sublayer indicator bit as an indicator in an asynchronous transfer mode cell, fills the cell with the compressed voiceband user communications, and transports the cell over the selected connection. A second interworking unit receives the asynchronous transfer mode cell, and interworks the cell according to a decompression method for the voiceband user communications if the convergence sublayer indicator bit is set.

JMS/81700-011/188404.1